

F. MURPHY

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MAY -5 1989

Westinghouse
Electric Corporation

Advanced Industrial
Systems Divisions

Engineering Services
1180 Andover Park West
Seattle, WA 98136
(206) 575-2345

May 3, 1989

Ashgrove Cement Company
3801 E. Marginal Way So.
Seattle, Washington 98134

Attention: Mr. Ken Rone

Subject: G.E. 4160 Volt Switchgear
Your Order No. S398
Westinghouse Job No. SEED159

Gentlemen:

Enclosed you will find Lyle McFarland's Engineering Service Report covering the inspection and cleaning of one cell in lineup of the G.E. 4160 volts switchgear.

If you have any questions regarding the work performed, or are in need of further assistance, please feel free to contact Mr. Larry Neff, Customer Service Coordinator at (206) 575-2515, or your Westinghouse Sales Representative, Mr. Glenn Enstrom at (206) 575-2533.

Thank you for letting Westinghouse be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

K. G. Hammond, Manager
Seattle Engineering Service

/dz

Enclosure

cc: Lyle McFarland
cc: Glenn Enstrom
cc: Westinghouse - Western Region Office

USEPA SF



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ASHGROVE CEMENT COMPANY
3801 EAST MARGINAL WAY SO.
SEATTLE, WASHINGTON 98134

PURCHASE ORDER NUMBER: S398

OUR ORDER NUMBER: SEED159

ENGINEERING SERVICES REPORT

GE 4160 VOLT SWITCHGEAR

PREPARED BY: LYLE MCFARLAND

MAY 3, 1989

WESTINGHOUSE ELECTRIC CORPORATION
ENGINEERING AND INSTRUMENTATION SERVICES DIVISION
1180 ANDOVER PARK WEST
SEATTLE, WASHINGTON 98188

206-575-2345

PURPOSE

Provide inspection and cleaning of one cell in line up of G.E. Co. 4160 volt switchgear.

PERSON(S) CONTACTED

Mr. Ken Rone

APPARATUS IDENTIFICATION

4160 volt switchgear - G.E. Co. type MC-4.76-250, Req #300-81100, Sum #0204A2387

TIME IN SERVICE AND APPLICATION

Equipment has been in service several years and provides electrical distribution in a cement plant.

AS FOUND

During cable hi-pot test it was found one phase in the most left hand cell load side bus exhibited excessive current leakage. A visual inspection showed an accumulation of dust on all horizontal surfaces in the cell including run back bus insulation.

ACTION TAKEN

Insulation surfaces in the circuit breaker cell were sprayed with electrical grade solvent and wiped with clean rags to remove dust and residue accumulations. Structure surfaces were wiped to remove dust. A short thread, apparently from a rag previously used for cleaning, was removed from a position that may have bridged a portion of the bus insulation.

After cleaning, the phase A load side bus insulation was checked for integrity by applying the hi-pot test. The leakage current was reported to be one microamp and 12 KVDC. This level is considered to be acceptable.